

Title (en)

MILLIMETER WAVE COMMUNICATION-BASED RADIO FREQUENCY SYSTEM, METHOD FOR ADJUSTING TRANSMIT POWER, AND TERMINAL

Title (de)

AUF MILLIMETERWELLENKOMMUNIKATION BASIERENDES FUNKFREQUENZSYSTEM, VERFAHREN ZUR ANPASSUNG DER SENDELEISTUNG UND ENDGERÄT

Title (fr)

SYSTÈME RADIOFRÉQUENCE BASÉ SUR LA COMMUNICATION PAR ONDES MILLIMÉTRIQUES, PROCÉDÉ DE RÉGLAGE DE LA PUISSANCE D'ÉMISSION, ET TERMINAL

Publication

EP 3780398 A1 20210217 (EN)

Application

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Priority

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Abstract (en)

Embodiments of this application disclose a radio frequency system based on millimeter wave communication, a method for adjusting transmit power, and a terminal. The radio frequency system based on millimeter wave communication includes a Doherty power amplification unit, an antenna array unit, and a micro control unit MCU, where an output end of the Doherty power amplification unit is connected to an input end of the antenna array unit, a control end of the Doherty power amplification unit and a control end of the antenna array unit are both connected to the MCU, and the MCU controls a radiation direction of an antenna in the antenna array unit; and the Doherty power amplification unit includes two power amplifiers, saturation power of the two power amplifiers is not equal, a switch controller is connected in series to each of the power amplifiers, and the MCU controls transmit power of the Doherty power amplification unit by controlling opening and closing of the switch controller in the Doherty power amplification unit.

IPC 8 full level

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